

-1- (WPAT)

ACCESSION NUMBER
SECONDARY ACCESSION
TITLE

85-186751/31

C85-081487

Primary cell zinc alloy electrode - contains
germanium, indium, and lead
L03 M26

DERWENT CLASSES

PATENT ASSIGNEE

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PRIORITY

83.11.25 83JP-220732

NUMBERS

1 patent(s) 1 country(s)
JP60114548 A 85.06.21 * (8531) 3p

PUBLICATION DETAILS

APPLICATION DETAILS

83JP-220732 83.11.25

SECONDARY INT'L. CLASS.

C22C-018/00

ABSTRACT

JP60114548 A

Zinc alloy electrode includes, Ge 0.01-0.5%, Pb
0.01-0.5%, and additionally In 0.001-0.01%.

USE/ADVANTAGE - For primary cell electrode
material, this invention relates to improvement of
Ga-In-Zn alloy disclosed in Japanese Patent
Application No. 026456/83 by including Pb. Multiple
effect of Pb with Ga is notable with respect to
prodn. of hydrogen gas (2-3 micro-litre/g/day) in
combination of Ge and Pb. The gas prodn. of less than
3 micro-litre/g/day attained by more than 5% concn.
mercury-including zinc powder is obtd. only by P more
than 0.01%. In the coexistence of Pb and Ga, optimum
inclusion range of In is decreased to less than
0.01%. (0/0)

-1- (JAPIO)

ACCESSION NUMBER

TITLE

PATENT APPLICANT

INVENTORS

PATENT NUMBER

APPLICATION DETAILS

SOURCE

INT'L PATENT CLASS

JAPIO CLASS

ABSTRACT

85-114548

ZINC ALLOY FOR ELECTRODE

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85.10.24 SECT. C, SECTION NO. 310; VOL. 9, NO. 267,
PG. 19.

C22C-018/00

12.3 (METALS--Alloys); 12.2 (METALS--Metallurgy Heat
Treating)

PURPOSE: To increase the hydrogen overvoltage of an
electrode of a primary cell and to prevent the
corrosion by adding prescribed percentages of Ga, In
and Pb to Zn.

CONSTITUTION: This Zn alloy for an electrode contains
0.01-0.5% Ga and 0.01- 0.5% Pb or further contains
0.001-0.01% In. Though the amounts of expensive Ga
and In added are small, by adding a little Pb, the
hydrogen overvoltage of an electrode of a primary
cell made of the Zn alloy is increased, and the
corrosion is prevented.